



ENVIRONMENTAL SHOW OF THE SOUTH

May 15-17, 2019 - Chattanooga, Tennessee

DRAFT Conference Schedule

The Environmental Show of the South will be held May 15-17, 2019 at the Chattanooga Convention Center, 1 Carter Plaza, Chattanooga, TN 37402.

Start / end times are highlighted below for your travel planning purposes:

- Tues., May 14

Arrival / Options

12:30 pm – Golf Tournament at Harrison Bay

7:00 pm – Networking reception at the TN Aquarium
- Wed., May 15

Full Day

7:30 am – Registration / Exhibit Hall open

9:00 am – Opening Session begins

6:30 pm – Welcome Reception in Exhibit Hall ends
- Thurs., May 16

Full Day

7:30 am – Breakfast available in Exhibit Hall

8:00 am – Day’s technical sessions begin

6:00 pm – Pub Crawl departing from Marriott
- Fri., May 17

Half Day

7:30 am – Breakfast available in meeting room

8:15 am – Closing session begins

11:00 am – Event concludes

The Environmental Show of the South features 65 hours of presentations within 18 breakout and 2 plenary sessions. Breaks are coordinated so that attendees may move between sessions as needed. This draft schedule is provided so attendees may plan their time accordingly.

Visit us online at tn.gov/environment/esos for more information or to register.

If you have any questions, please email rachel.s.goulet@tn.gov or call 615-532-0788.

Wednesday, May 15, 2019 Morning Session	
Banquet Rooms E-F-G-H-I-J	
Closing Plenary Session	
On Site Registration Open; Breakfast Served in the Exhibit Hall	7:30 a.m.
Opening Remarks - Patrick J. Flood, P.E., Director - Division of Solid Waste Management	9:00 a.m.
	9:05 a.m.
	9:10 a.m.
Title TBD - David W. Salyers, P.E., Commissioner, Tennessee Department of Environment & Conservation	9:15 a.m.
	9:20 a.m.
	9:25 a.m.
	9:30 a.m.
Title TBD - Mary Walker, Regional Administrator, U.S. Environmental Protection Agency Region 4	9:35 a.m.
	9:40 a.m.
	9:45 a.m.
	9:50 a.m.
	9:55 a.m.
	10:00 a.m.
Title TBD - Deputy Commissioner, TDEC	10:05 a.m.
	10:10 a.m.
	10:15 a.m.
	10:20 a.m.
	10:25 a.m.
	10:30 a.m.
EPA Lean Management System - Improving Efficiencies and Service - Beverly H. Banister, U.S. EPA Region 4	10:35 a.m.
	10:40 a.m.
	10:45 a.m.
	10:50 a.m.
	11:00 a.m.
Morning Announcements - Patrick J. Flood, P.E.	11:05 a.m.
	11:10 a.m.
	11:15 a.m.
	11:20 a.m.
	11:25 a.m.
Lunch Buffet in Banquet Rooms; Exhibit Hall Open	11:30 a.m.

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Wednesday, May 15, 2019 Afternoon Session															
			Room 9-10	Room 11	Room 12	Room 13	Room 14	Room 15	Room 16-17	Room 18-19					
			Underground Storage Tanks	Toxic Substances	Environmental Law	Materials Management	Emerging Contaminants	Solid Waste	Water: Landfill Leachate Issues	Air Quality					
Exhibit Hall Open	1:00 p.m.	Technical Session 1 - Part 1	Moderator Cindy Storm opens session	Moderator Adrienne White opens session	Moderator Jim Wright opens session	Moderator Teri Horsley opens session: The Future of Recovered Material Collection	Moderator Jennifer McClellan opens session	Moderator Beverly Philpot opens the session	Moderator Robert O'Dette opens session	Moderator Ronné Adkins opens session	1:00 p.m.				
	1:05 p.m.										1:05 p.m.				
	1:10 p.m.		UST Program Update - Stan Boyd, PG, TDEC - Division of Underground Storage Tanks	PFAS and Waste - What To Do With It Now? - Harry Behzadi, SGS	Ethics I - Laura L. Chastain, Board of Professional Responsibility	Kroger: Zero Hunger Zero Waste - Sabrina Powell, Kroger Co.	An Overview of TDEC's Approach to Address PFAS in Tennessee - James Clark, TDEC - Division of Solid Waste Management - Kendra Abkowitz, PhD, TDEC - Office of Policy and Sustainable Practices	Survey Control and Intro to NGS "2022" Datum - Wm. Christopher Murray, Civil and Environmental Consultants	Murfreesboro Leachate and Middle Point MSW - John Strickland, Murfreesboro Water Resources Department	EPA Air Quality Update - Lynorae Benjamin, U.S. Environmental Protection Agency, R4	1:10 p.m.				
	1:15 p.m.		High Resolution Site Characterization of Multiple NAPL Bodies at a Retail Petroleum Station Using LIF - Randy St. Germain, Dakota Technologies	The Environmental Injustice of Lead Poisoning in Shelby County - Elizabeth Shockley, Shelby County Health Department		Recycling Collection: Looking to the Future - Robbie McCready, City of Lexington					EPA PFAS Action Plan Update - Aaryn Jones, U.S. Environmental Protection Agency (EPA)	Drone Surveying and Uses in Landfill Capping Construction - Wm. Christopher Murray, Civil and Environmental Consultants	Garbage Juice in My Sewage Treatment Plant?: The Impacts of Landfill Leachate - Laurel Rognstad, TDEC - Division of Water Resources	Tennessee Air Quality Update - James P. Johnston, P.E., TDEC - Division of Air Pollution Control	1:15 p.m.
	1:20 p.m.														1:20 p.m.
	1:25 p.m.														1:25 p.m.
	1:30 p.m.														1:30 p.m.
	1:35 p.m.														1:35 p.m.
	1:40 p.m.								1:40 p.m.						
	1:45 p.m.								1:45 p.m.						
	1:50 p.m.		High Resolution Site Characterization and In-Situ Remediation in a Complex Fracture Flow Regime - William Lawrence Brab, AST Environmental	Don't Blink - An Overview of PFAS - Marc D. Florian, CPG, RG, Environmental Consulting & Technology	Addressing and Overcoming Economic Obstacles in the Recycling Industry -Lincoln Young, Rockwood Recycling	Benefits of Early Landfill Survey Control - John Drewnowski, P.E., TriAD Environmental Consultants, Inc. - Ken Shreeve, R.L.S., Gresham Smith	Solar Powered Top Head Drive Piston Pumps - Mark Bertane, Blackhawk Technology	1:50 p.m.							
	1:55 p.m.							1:55 p.m.							
	2:00 p.m.							2:00 p.m.							
	2:05 p.m.							2:05 p.m.							
	2:10 p.m.		2:10 p.m.												
	2:15 p.m.		2:15 p.m.												
	2:20 p.m.		2:20 p.m.												
	2:25 p.m.		2:25 p.m.												
Coffee Break	2:30 p.m.	Refreshments served in the Exhibit Hall									2:30 p.m.				
Exhibit Hall Open	3:00 p.m.	Technical Session 1 - Part 2	Must See TV: A Post-Treatment Study Like None Other - Scott Noland, Remediation Products	TN CLPPP: An Approach for Interventions in High Risk Regions - Rachael Stough, MS, Tennessee Department of Health	Ethics II: 2019 Attorney Ethics Update & Quiz - Paula Schaefer, University of Tennessee College of Law	The Future of Rural Recycling - Doug Giles, Marshall County Solid Waste	PFAS: By The Numbers - Justin Meredith, TDEC - Division of Remediation	TDEC Special Waste Process Clarifications - Jeremy Hooper, TDEC - Division of Solid Waste Management	Phyto-Remediation for Landfill Leachate Treatment - John R. Buchanan, Ph.D., P.E., University of Tennessee	Southeastern Regional Haze Update - John E. Hornback, Metro 4/Southeastern States Air Resource Managers	3:00 p.m.				
	3:05 p.m.										3:05 p.m.				
	3:10 p.m.										3:10 p.m.				
	3:15 p.m.										3:15 p.m.				
	3:20 p.m.										3:20 p.m.				
	3:25 p.m.										3:25 p.m.				
	3:30 p.m.										3:30 p.m.				
	3:35 p.m.										3:35 p.m.				
	3:40 p.m.		Trap and Treat – Remedial Approach to Closing a Long Term Contamination Project - Greg Stephenson, PG, PM Environmental - Duane Guilfoil, P.E., AST Environmental	Southside Chattanooga Lead: A Case Study - Tim Frederick, MPH, US Environmental Protection Agency	Evolution of Poly-and Perfluoroalkyl Substances (PFAS) Management: Holistic Approach to Understanding and Reducing PFAS Discharge - Michael Hicks, Ramboll	Leveraging Rubicon's Technology for Improved Material Collection - Meredith Leahy, Rubicon Global	Addressing PFAS Ground Water to Surface Water Discharge - John Collins, AquaBlok	Biological Treatment for Leachate? - Pete Shack, P.E., Phoenix Environmental Engineers	Putting the Flare to Productive Use – Keeping Nitrifiers Warm During the Winter - John R. Buchanan, Ph.D., P.E., University of Tennessee	Characterizing Community Exposure to PAHs - Lawrence J. Smith, Shelby County Health Department	3:40 p.m.				
	3:45 p.m.										3:45 p.m.				
	3:50 p.m.										3:50 p.m.				
	3:55 p.m.										3:55 p.m.				
	4:00 p.m.							Landfill Leachate: Treatment Methods and Costs to Treat - Ron Pearson, Onsite Environmental			4:00 p.m.				
	4:05 p.m.										4:05 p.m.				
	4:10 p.m.										4:10 p.m.				
	4:15 p.m.										4:15 p.m.				
	4:20 p.m.		Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	4:20 p.m.				
	4:25 p.m.										4:25 p.m.				
Welcome Reception	5:00 p.m.	Welcome Reception held in the exhibit hall 5:00 to 6:30 pm									5:00 p.m.				

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Thursday, May 16, 2019 Morning Session

			Room 9-10	Room 11	Room 12	Room 13	Room 14	Room 15	Room 16-17	Room 18-19								
			Hot Topics	Remediation	Environmental Law	Materials Management	Hazardous Waste	Solid Waste	Water: Community Funding and Solid Waste Permits	State of Tennessee Air Permitting Workshop								
Open - breakfast available	7:30 a.m.	Exhibit Hall open; Breakfast served in the Exhibit Hall										7:30 a.m.						
Exhibit Hall Open	8:00 a.m.	Technical Session 2 - Part 1	Moderator Harry McCann opens session	Moderator Alison Hensley opens session	Moderator opens session	Moderator Taylor Smith opens session: Long-Term Solid Waste Solutions	Moderator Christina Perez opens session	Moderator Revendra Awasthi opens session	Moderator Paula Mitchell opens session	State of Tennessee Air Permitting Workshop	8:00 a.m.							
	8:05 a.m.			Brownfield to Solar Field:							8:05 a.m.							
	8:10 a.m.		Small Business Environmental Roundtable - Jim Brown, National Federation of Independent Businesses - Charles Schneider, TN Chamber of Commerce & Industry - Richard Wilson, TN Comptroller of the Treasurer	Repurposing Closed Landfills for Solar Energy - David Adams, Wilmot	OSHA Compliance Update and Workplace Hazards in the Field - Michael C. Mallen, Chambliss, Bahner & Stophel	Life Cycle Assessment Driven Decision Making for End of Life Solid Waste - Andrea Resch Gardiner, P.E., BCEE, Vanderbilt University / TDEC - Division of Solid Waste Management	Federal and State Hazardous Waste, Universal Waste and Used Oil Regulation & Policy - Jacqueline Okoreeh-Baah, TDEC – Division of Solid Waste Management - Alan Newman, U.S. Environmental Protection Agency (EPA) - Larry Lamberth, U.S. Environmental Protection Agency (EPA)	Benefits of Landfill Closure During Operation of the Landfill - Robert Bachus, Ph.D., P.E., D.GE, Geosyntec Consultants	Navigating SRF, CDBG and/or USDA-RD for Large and Small Communities & New Opportunities - Leslie Gillespie-Marthaler, TDEC - Division of Water Resources - Terence McGhee, USDA Rural Development	Tennessee air quality and permitting information that applies to both large and small sources of air pollution in Tennessee. The workshop consists of a joint morning session with a general overview of Tennessee air quality and permitting information, with two afternoon sessions tailored specifically to Title V (large) and non-Title V (small, also called true minor or conditional major) sources of air pollution. Note that this workshop is primarily for sources permitted directly by the State of Tennessee (sources not located in Davidson, Shelby, Knox, or Hamilton Counties since those counties issue their own permits to facilities not owned by the State of Tennessee), although anyone is welcome to attend.	8:10 a.m.							
	8:15 a.m.										8:15 a.m.							
	8:20 a.m.										8:20 a.m.							
	8:25 a.m.										8:25 a.m.							
	8:30 a.m.										8:30 a.m.							
	8:35 a.m.			Monitoring Earth-Moving and Site Development Construction Activities with Drones - Leum Monroe, Skytec - Andy Carroll, Skytec	Debtors' Protections After an Environmental Bankruptcy: Enforcing Discharge Injunctions & Other Recent Developments - Darlene Taylor Marsh, Darlene Marsh - Lawrence R. Ahern, III, Brown & Ahern - Marvin Clements, Office of the Tennessee Attorney General	Radioactive Items in Waste - Clifford Blake McWilliams, TDEC - Division of Radiological Health - Jake Parker, TDEC - Division of Radiological Health - Jerry W. Bingham, TDEC - Division of Radiological Health - Ryan Crihfield, TDEC - Division of Radiological Health	Hazardous Waste Generator Improvement Rule: Is It Really An Improvement? - Ethan Ware, Williams Mullen	Amoozometer Field Demonstration for Determining Landfill Liner Hydraulic Conductivity - Jo K. House, Civil & Environmental Consultants	8:35 a.m.									
	8:40 a.m.		8:40 a.m.															
	8:45 a.m.		8:45 a.m.															
	8:50 a.m.		8:50 a.m.															
	8:55 a.m.		8:55 a.m.															
	9:00 a.m.		Brownfield Redevelopment In the Southeast - Sonja B. Favors, P.E., Alabama Dept. of Env. Mgmt - Herb Petitjean, KY Energy and Environment Cabinet - Evan Spann, TDEC - Division of Remediation	Use of Slow-Release Encapsulated Substates to Enhance In-Situ Reductive Dechlorination Processes - Wade Meese, Innovative Environmental Technologies						9:00 a.m.								
	9:05 a.m.									9:05 a.m.								
	9:10 a.m.									9:10 a.m.								
	9:15 a.m.									9:15 a.m.								
9:20 a.m.	9:20 a.m.																	
9:25 a.m.				Moderator closes session					9:25 a.m.									
Coffee Break	9:30 a.m.	Networking Break—Refreshments served in the Exhibit Hall										9:30 a.m.						
Exhibit Hall Open	10:00 a.m.	Technical Session 2 - Part 2	Nobody Trashes Tennessee Litter Prevention Campaign Research - Mike McClanahan, TDOT - Shawn Bible, TDOT	Flura Chemical Superfund Removal Site - High Hazard Cylinder and Chemical Ops - David L. Andrews, US EPA Region 4	TN H2O: Tennessee's Legal Framework for Water Supply - Grant Ruhl, TDEC - Sohnia Hong, Office of the Tennessee Attorney General	Safety in the Materials Management Workshop: Moderator: Denise Davis Safe Daily - Morgan Thomas, Municipal Equipment	EPA's New Electronic Manifest (e-Manifest) System - Joel Gregier, CDGP, Lion Technology	DSWM Training Update - New Training for the Regulated Community - Patrick Mulligan, P.G., TDEC - Division of Solid Waste Management	The True Value of Sustainable Infrastructure: A Triple Bottom Line Analysis on Nashville MWS Biosolids Facility - Maria Vollmer, Wilmot	General Information: This session of the workshop will provide a general overview of Tennessee air quality and permitting information that applies to both large and small sources of air pollution in Tennessee.	10:00 a.m.							
	10:05 a.m.													10:05 a.m.				
	10:10 a.m.													10:10 a.m.				
	10:15 a.m.													10:15 a.m.				
	10:20 a.m.													10:20 a.m.				
	10:25 a.m.							10:25 a.m.										
	10:30 a.m.		Brownfields, the BUILD Act, and Opportunity Zones - Powerful Tools for Building a Robust and Resilient Redevelopment Program - Daryl Hernandez, PE, EnSafe - Ricardo Federico, PG, CHMM, EnSafe	Interstate Drive - Stephanie A. Durman, TDEC - Office of General Counsel - Ashley Strittmatter, Baker Donelson	TBA		Successful Resolution of Landfill Subsurface Oxidation Event - Ron E. Vail, P.E., Santek Waste Services	10:30 a.m.										
	10:35 a.m.											10:35 a.m.						
	10:40 a.m.							Dark Store Theory - Marc D. Florian, CPG, Environmental Consulting & Technology			New Pharmaceutical Rule - Alan Newman, U.S. Environmental Protection Agency (EPA)	A Discussion on Landfill Costs, Rates, and Intakes - Rate Study - Andrew J. Querio, P.E., CPESC, EIL (Environmental Information Logistics) - Chirag Nanavati, EIL (Environmental Information Logistics)	Significance of Collaborative Water Resources and Solid Waste Permits - Serena A. Broska, E.I., TDEC - Division of Solid Waste Management - Robert Dean Burnette, P.E., TDEC - Division of Solid Waste Management	10:40 a.m.				
	10:45 a.m.																	10:45 a.m.
	10:50 a.m.																	10:50 a.m.
	10:55 a.m.						10:55 a.m.											
	11:00 a.m.		Angled Injection to Mitigate PCE Intrusion into a Stream at a Federal Superfund Site in the Piedmont Region of North Carolina - Gary Simpson, AST Environmental			TOSHA Perspective - Wendylee Fisher, TN OSHA									11:00 a.m.			
	11:05 a.m.											11:05 a.m.						
	11:10 a.m.											11:10 a.m.						
	11:15 a.m.											11:15 a.m.						
11:20 a.m.	Moderator closes session	Moderator closes session						Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	11:20 a.m.						
11:25 a.m.									11:25 a.m.									
Exhibit Hall Open	11:30 a.m.	Lunch served in Banquet Rooms 11:30 to 1 pm										11:30 a.m.						

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Thursday, May 16, 2019 Afternoon Session

			Room 9-10	Room 11	Room 12	Room 13	Room 14	Room 15	Room 16-17	Room 18-19								
			Coal Combustion Residuals	Vapor Intrusion	Environmental Law	Materials Management	Hazardous Waste	SWANA	Stormwater and Aquifer Protection									
Exhibit Hall Open	1:00 p.m.	Technical Session 3 - Part 1	Moderator Rob Burnette opens session	Moderator Charles Jobe opens session	Moderator opens session	Moderator Bishop Wagener opens session: Outreach and Program Branding	Moderator Ian Barrett opens session	Moderator Mary Anderson, SWANA, opens the session	Moderator Ariel Wessel Fuss opens session	State of Tennessee Air Permitting Workshop: Breakouts	1:00 p.m.							
	1:05 p.m.										1:05 p.m.							
	1:10 p.m.		Reclaiming and Recycling Coal Fly Ash for Beneficial Use - John M. Castleman III, P.E., SEFA	Vapor Intrusion Mitigation for Existing Structures - Jordan Knight, MPA, Land Science/REGENESIS	Tweets in the Air 3: Fencing in the Clean Power Plan and More - Steven R. Stout, State of Tennessee - Khurshid K. Mehta, TVA - Molly Cripps, TDEC - Office of Energy Programs	Changing Behavior Using Smarter Outreach & Program Branding - Lisa Skumatz, Ph.D., SERA	Molarity Provides Better Clarity – Using Molar-based Data for Evaluating Chlorinated Volatile Organic Compound-Impacted Sites - Joe Ricker, Earthcon	A Motley Crew of Final Covers on TN Landfills - Serena A. Broska, E.I., TDEC - Division of Solid Waste Management - Andrea Resch Gardiner, P.E., BCEE, TDEC - Division of Solid Waste Management	Tennessee Multi-Sector Stormwater Permit: Everything You Want to Know and More - Crystal Warren, TDEC - Division of Water Resources	The rooms will be split into two parts: Title V Air Permitting Topics– State of Tennessee: This session of the workshop is for the largest sources of air pollution in Tennessee, sources required to have Title V permits issued by the State of Tennessee. Sources located in Davidson, Shelby, Knox, and Hamilton Counties are welcome to attend, but the permitting information provided may pertain only to sources directly regulated by the State rather than the local governments in these counties.	1:10 p.m.							
	1:15 p.m.										1:15 p.m.							
	1:20 p.m.										1:20 p.m.							
	1:25 p.m.										1:25 p.m.							
	1:30 p.m.										1:30 p.m.							
	1:35 p.m.										1:35 p.m.							
	1:40 p.m.										1:40 p.m.							
	1:45 p.m.										1:45 p.m.							
	1:50 p.m.		Data-Mining the Rare-Earth-Element Potential of Old Mine-Mouth Power Plants' CCR - Richard W. Arnseth, Tetra Tech - Thomas A. Gray, Tetra Tech - Robert G. Kennedy III, P.E., Tetra Tech	Proven Method to Accurately Access Location and VI Potential to Better Define your CSM Model - Laurie A. Chilcote, Cox-Colvin & Associates/Vapor Pin Enterprises		Recycling Across the Country: Results of a National Survey - Lisa Skumatz, Ph.D., SERA					Activated Carbon: A Love Affair Spanning 16 Years - Scott Noland, Remediation Products	Equipment Issues and Best Practices in a Landfill Application - Mark A. Welch, Caterpillar	Introducing a Centralized Guidance Resource for Stormwater Best Management Practices Performance Evaluations - Mark B. Miller, AquaShield	Non-Title V Air Permitting Topics – State of Tennessee: This session of the workshop is for smaller sources of air pollution in Tennessee, sources considered “True Minor” or “Conditional Major,” and is primarily for sources not located in Davidson, Shelby, Knox, or Hamilton Counties since those counties issue their own permits. This includes sources covered under a general permit or permit-by-rule.	1:50 p.m.			
	1:55 p.m.														1:55 p.m.			
	2:00 p.m.				2:00 p.m.													
	2:05 p.m.				2:05 p.m.													
	2:10 p.m.				2:10 p.m.													
	2:15 p.m.				2:15 p.m.													
	2:20 p.m.				2:20 p.m.													
	2:25 p.m.				2:25 p.m.													
Ice Cream Social	2:30 p.m.	Ice Cream Social held in the Exhibit Hall 2:30 to 3:15 pm									2:30 p.m.							
Exhibit Hall Closes	3:15 p.m.	Technical Session 3 - Part 2	Applications of Engineered Turf Cover and Revetment Systems in Landfill Closures - Ming Zhu, Ph.D., P.E.(GA), Watershed Geosynthetics	SSD Design Integration- Proper Planning for a New Construction Vapor Intrusion System - Tony McDonald, A-Z Solutions	Brownfield Developments in Tennessee - David Higney, Grant Konvalinka & Harrison - Troy Keith, TDEC - Division of Remediation - Karen Simo, TDEC - Evan Spann, TDEC - Division of Remediation - G. Scott Thomas, Bass, Berry & Sims - Edward M. Callaway, Waller	Topics in Problem Waste: Moderator, Bob Fletcher Gresham's Law: What is it? What does it have to do with MRF's, Contamination and National Sword? - Lisa Skumatz, Ph.D., SERA	Performance Monitoring Practical Guide: Is My Remediation Solution Working? - Anthony Giannetti, Cascade Drilling & Technical Services - Robert Kelley, Hepure Technologies	Scrap Tire Beneficial End Markets - Thomas "Tom" B. McGill, Jr., TDEC - Office of Policy & Sustainable Practices	Influence of Sulfate Reduction and Biogenic Reactive Minerals on Long-Term PRB Performance in a Sulfate Rich, High Flow Aquifer - John Valkenburg, PeroxyChem	The sessions continue after the break.	3:15 p.m.							
3:20 p.m.																		3:20 p.m.
3:25 p.m.																		3:25 p.m.
3:30 p.m.																		3:30 p.m.
3:35 p.m.																		3:35 p.m.
3:40 p.m.																		3:40 p.m.
3:45 p.m.																		3:45 p.m.
3:50 p.m.																		3:50 p.m.
3:55 p.m.	Investigation, Assessment, and Remediation: An Update on the State of Coal Ash in Tennessee - Robert Wilkinson, TDEC		Vapor Intrusion Risk at a Retail Building: A Cautionary Case Study - Chris Scott, P.G., TriAD Environmental Consultants	Environmental and Energy Impacts Associated with the Large Scale Production of Fishing Worms - Bruno Durant, Silver Bait	An Overview of Incremental Sampling Methodology and Its Current and Future Applications - Jacob Gruzalski, Environmental Standards	Update on the Landfill XXX Regulation - Matt K. Stutz, P.E., Weaver Consultants Group - David Thorley, P.E., Waste Management	ZVI and Vegetable Oil Synergy During In Situ Remediation of Chlorinated Solvent Contaminated Aquifers - Sangho Bang, Tersus Environmental	3:55 p.m.										
4:00 p.m.															4:00 p.m.			
4:05 p.m.															4:05 p.m.			
4:10 p.m.															4:10 p.m.			
4:15 p.m.															4:15 p.m.			
4:20 p.m.															4:20 p.m.			
4:25 p.m.															4:25 p.m.			
4:30 p.m.															4:30 p.m.			
4:35 p.m.	Moderator closes session		Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	Moderator closes session	4:35 p.m.									
4:40 p.m.									4:40 p.m.									
4:45 p.m.								4:45 p.m.										

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Friday, May 17, 2019 - Morning Only

Friday, May 17, 2019 - Morning Only												
			Banquet Rooms H-I-J									
			Closing Plenary Session									
	7:30 a.m.	Breakfast served in Meeting Room from 7:30 to 8:15 a.m. Certificates of Attendance will be available for pick up as well.						7:30 a.m.				
	8:15 a.m.	Closing Plenary Session	Good Morning!					8:10 a.m.				
	8:20 a.m.		Legislative Update - Mallorie Kerby, TDEC - Office of General Counsel					8:15 a.m.				
	8:25 a.m.							8:20 a.m.				
	8:30 a.m.							8:25 a.m.				
	8:35 a.m.							8:30 a.m.				
	8:40 a.m.							8:35 a.m.				
	8:45 a.m.							8:40 a.m.				
	8:50 a.m.		TDEC Bureau of Environment Update - Presenter TBC					8:45 a.m.				
	8:55 a.m.							8:50 a.m.				
	9:00 a.m.							8:55 a.m.				
	9:05 a.m.		Region 4 State Panel Discussion: Topics may include SO2 2010 Standards Attainment Work PFAS from an Air Perspective					9:00 a.m.				
	9:10 a.m.							9:05 a.m.				
	9:15 a.m.							9:10 a.m.				
	9:20 a.m.							9:15 a.m.				
	9:25 a.m.							9:20 a.m.				
	9:30 a.m.							9:25 a.m.				
	9:35 a.m.							9:30 a.m.				
	9:40 a.m.							9:35 a.m.				
	9:45 a.m.							9:40 a.m.				
	9:50 a.m.							9:45 a.m.				
	9:55 a.m.							9:50 a.m.				
	10:00 a.m.							9:55 a.m.				
	10:05 a.m.							10:00 a.m.				
	10:10 a.m.							10:05 a.m.				
	10:15 a.m.							10:10 a.m.				
	10:20 a.m.							10:15 a.m.				
	10:25 a.m.							10:20 a.m.				
	10:30 a.m.							10:25 a.m.				
	10:35 a.m.							10:30 a.m.				
	10:40 a.m.							10:35 a.m.				
	10:45 a.m.							10:40 a.m.				
	10:50 a.m.		Closing Remarks - Patrick J. Flood, P.E., TDEC Division of Solid Waste Management					10:45 a.m.				
	10:55 a.m.							10:50 a.m.				
	11:00 a.m.							48th Annual Environmental Show of the South Concludes				